

ABSTRACT OF THE DISCLOSURE

A finite state transducer generator includes a recursive transition network creating part that creates a recursive transition network, an arc replacement part that recursively
5 repeats an operation where an arc in a finite state transducer is replaced by a network corresponding to an input label of the arc by a network in the recursive transition network, and a priority calculating part that calculates an arc replacement priority based on statistical information regarding frequency
10 of applying grammar rules. The arc replacement part replaces arcs in descending order of arc replacement priority. Therefore, the finite state transducer generator can generate a finite state transducer capable of parsing a considerable great number of sentences within a limited size.

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